



SEQUENCE LISTING

<110> Akzo Nobel, NV
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Boender, Pieter Jacob
Hellings, Jan Albert

<120> Hepatitis Y Virus

<130> 9310-37

<140> US 09/868,553
<141> 2001-06-18

<150> PCT/EP99/10179
<151> 1999-12-16

<150> EP98204313.5
<151> 1998-12-18

<150> EP99200167.7
<151> 1999-01-20

<160> 26

<170> PatentIn version 3.1

<210> 1
<211> 304
<212> DNA
<213> Unknown

<220>
<223> Hepatitis Y virus

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atgtccagcg tggccaaagc cactgcccgg cgcgttggcc gactggacgc ccaggcgctg 180
caaagccaag gcgtgcagac gctgctcgag gccaccgca actggagcaa gcccagactg 240
tggtagcca tcgagcgcgc cggcaaggtt tacacctacg attactacct gaccgcactg 300
gatc 304

<210> 2
<211> 222
<212> DNA
<213> Unknown

<220>
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gcattagatt agccaattat ctggggcacc atcataagca gaagggataa gcatggcgct 120
 caccgaccaa tccacccgca ccggtaccgg cgaagaactc gacgctgccg tcatcgacgc 180
 ctatctcaag gcccatattc ccggcctgag tggcgaggcc gg 222

<210> 3
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 <212> DNA
 <213> Artificial sequence

<220>
 <223> Synthetic oligonucleotide

<400> 3
 cgtacgctga gcgta 15

<210> 4
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 <212> DNA
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<220>
 <223> Synthetic oligonucleotide

<400> 4
 ggcgtaccac agctc 15

<210> 5
 <211> 20
 <212> DNA
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<220>
 <223> Synthetic oligonucleotide

<400> 5
 cacgccctcg acaaacagcg 20

<210> 6
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 <212> DNA
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<220>
 <223> Synthetic oligonucleotide

<400> 6
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<210> 7
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<220>

<223> Synthetic oligonucleotide

<400> 7

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15

<210> 8

<211> 15

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 8

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<210> 9

<211> 18

<212> DNA

<213> Artificial sequence

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<223> Synthetic oligonucleotide

<400> 9

acggcgcgta ttgcttgt

18

<210> 10

<211> 18

<212> DNA

<213> Artificial sequence

<220>

<223> Synthetic oligonucleotide

<400> 10

gccgggaata tgggcctt

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<210> 11

<211> 100

<212> PRT

<213> Unknown

<220>

<223> Hepatitis Y virus

<400> 11

Ser Gln Ala Thr Ala Arg Arg Thr Tyr Ala Glu Arg Ile Arg Arg Arg
1 5 10 15

Thr Ala Arg Pro Arg Gln Thr Ala Pro Val Arg Gln Ala Val Arg Gly
20 25 30

Val Gln Pro Arg Leu Tyr Arg His Val Gln Arg Gly Gln Ser His Cys

35 40 45
 Pro Ala Arg Trp Pro Thr Gly Arg Pro Gly Ala Ala Lys Pro Arg Arg
 50 55 60
 Ala Asp Ala Ala Arg Gly Pro Pro Gln Leu Glu Gln Ala Arg Ala Val
 65 70 75 80
 Val Arg His Arg Ala Arg Arg Gln Gly Leu His Leu Arg Leu Leu Pro
 85 90 95
 Asp Arg Thr Gly
 100
 <210> 12
 <211> 101
 <212> PRT
 <213> Unknown
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 <220>
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 1 5 10 15
 Asn Cys Thr Pro Ser Thr Asn Ser Ala Cys Pro Ala Ser Cys Pro Arg
 20 25 30
 Ser Ser Thr Ala Pro Ile Pro Ala Cys Pro Ala Trp Pro Lys Pro Leu
 35 40 45
 Pro Gly Ala Leu Ala Asp Trp Thr Pro Arg Arg Cys Lys Ala Lys Ala
 50 55 60
 Cys Arg Arg Cys Ser Arg Pro Thr Ala Thr Gly Ala Ser Pro Ser Cys
 65 70 75 80

Gly Thr Pro Ser Ser Ala Pro Ala Arg Phe Thr Pro Thr Ile Thr Thr
85 90 95

Xaa Pro His Trp Ile
100

<210> 13
<211> 101
<212> PRT
<213> Unknown

<220>
<223> Hepatitis Y virus

<400> 13

Asp His Lys Gln Leu Pro Asp Glu Arg Thr Leu Ser Val Phe Val Asp
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Glu Leu His Ala Leu Asp Lys Gln Arg Leu Ser Gly Lys Leu Ser Glu
20 25 30

Glu Phe Asn Arg Ala Tyr Thr Gly Met Ser Ser Val Ala Lys Ala Thr
35 40 45

Ala Arg Arg Val Gly Arg Leu Asp Ala Gln Ala Leu Gln Ser Gln Gly
50 55 60

Val Gln Thr Leu Leu Glu Ala His Arg Asn Trp Ser Lys Pro Glu Leu
65 70 75 80

Trp Tyr Ala Ile Glu Arg Ala Gly Lys Val Tyr Thr Tyr Asp Tyr Tyr
85 90 95

Leu Thr Ala Leu Asp
100

<210> 14
<211> 101
<212> PRT
<213> Unknown

<220>
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<220>
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<222> (68)..(68)
<223> x represents any amino acid

<400> 14

Asp Pro Val Arg Ser Gly Ser Asn Arg Arg Cys Lys Pro Cys Arg Arg
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Ala Arg Trp Arg Thr Thr Ala Arg Ala Cys Ser Ser Cys Gly Gly Pro
 20 25 30

Arg Ala Ala Ser Ala Arg Leu Gly Phe Ala Ala Pro Gly Arg Pro Val
 35 40 45

Gly Gln Arg Ala Gly Gln Trp Leu Trp Pro Arg Trp Thr Cys Arg Tyr
 50 55 60

Arg Arg Gly Xaa Thr Pro Arg Thr Ala Cys Arg Thr Gly Ala Val Cys
 65 70 75 80

Arg Gly Arg Ala Val Arg Arg Arg Ile Arg Ser Ala Tyr Val Arg Arg
 85 90 95

Ala Val Ala Cys Asp
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<210> 15

<211> 101

<212> PRT

<213> Unknown

<220>

<223> Hepatitis Y virus

<400> 15

Ile Gln Cys Gly Gln Val Val Ile Val Gly Val Asn Leu Ala Gly Ala
 1 5 10 15

Leu Asp Gly Val Pro Gln Leu Gly Leu Ala Pro Val Ala Val Gly Leu
 20 25 30

Glu Gln Arg Leu His Ala Leu Ala Leu Gln Arg Leu Gly Val Gln Ser
 35 40 45

Ala Asn Ala Pro Gly Ser Gly Phe Gly His Ala Gly His Ala Gly Ile
 50 55 60

Gly Ala Val Glu Leu Leu Gly Gln Leu Ala Gly Gln Ala Leu Phe Val
 65 70 75 80

Glu Gly Val Gln Phe Val Asp Glu Tyr Ala Gln Arg Thr Phe Val Gly
 85 90 95

Gln Leu Leu Val Ile
100

<210> 16
<211> 101
<212> PRT
<213> Unknown

<220>
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<220>
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<223> x represents any amino acid

<400> 16

Ser Ser Ala Val Arg Xaa Xaa Ser Xaa Val Xaa Thr Leu Pro Ala Arg
1 5 10 15

Ser Met Ala Tyr His Ser Ser Gly Leu Leu Gln Leu Arg Trp Ala Ser
20 25 30

Ser Ser Val Cys Thr Pro Trp Leu Cys Ser Ala Trp Ala Ser Ser Arg

35

40

45

Pro Thr Arg Arg Ala Val Ala Leu Ala Thr Leu Asp Met Pro Val Xaa
 50 55 60

Ala Arg Leu Asn Ser Ser Asp Ser Leu Pro Asp Arg Arg Cys Leu Ser
 65 70 75 80

Arg Ala Cys Ser Ser Ser Thr Asn Thr Leu Ser Val Arg Ser Ser Gly
 85 90 95

Ser Cys Leu Xaa Pro
 100

<210> 17
 <211> 376
 <212> DNA
 <213> Unknown

<220>
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<400> 17
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 gcgcacgtgc atcacccgac cgtggccgag ctgattcccc tgaccctggc cgagctcgaa 120
 cgctgggatg atcacaagca actgccggac gaaaaaaccc tgcaggtctt cgccagcgaa 180
 ctgcatggcc ttaaccagca gcgcctgtcc ggcaagctct ccgaagaact caaccgcgcc 240
 tataccggca tgtccagcgt ggtcaaagcc actgcccggc gcgttggccg actggacgcc 300
 caggcgctgc aaaccaaggc gtgcggacgc tgctcgaggc ccaccgcaac tggagcaagc 360
 ccgagctgtg gtacgc 376

<210> 18
 <211> 378
 <212> DNA
 <213> Unknown

<220>
 <223> Hepatitis Y virus

<400> 18
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 gcgcagcgtg catcacccga ccgtggccga gctgattccc ctgaccctgg ccgagctcga 120
 acgctgggat gatcacaagc aactgccgga cgaaaaaac ctgcaggtct tcgccagcga 180
 actgcatggc cttaaccagc agcgcctgtc cggcaagctc tccgaagaac tcaaccgcgc 240
 ctataccggc atgtccagcg tggtaaagc cactgcccgg gcgcttggcc gactggacgc 300

ccaggcgctg caaagccaag gcgtgcggac gctgctcgag gccaccgca actggagcaa 360
 gcccgagctg tggtacgc 378

<210> 19
 <211> 404
 <212> DNA
 <213> Unknown

<220>
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<220>
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 <222> (214)..(214)
 <223> n represents any nucleotide

<220>
 <221> misc_feature
 <222> (216)..(216)
 <223> n represents any nucleotide

<400> 19
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 ttcgtcgccc cgatcggtag gatcctgtgg cgcagcgtgc atcaccgcac cgtggccgag 120
 ctgattcccc tgaccctggc cgagtcgaac gctgggatga tcacaagcaa ctgccggacg 180
 aaaaaaccct gcaggtcttc gccagcgaac tacntncctt aaccagcagc gcctgtccgg 240
 caactctccg aagaactcaa ccacgcctat accggcatat cctgcgtgct caaatttact 300
 gcccggcgcg ttggccgact ggacgcccag gcgctgcaaa gccaaaggcgt gcagacgctg 360
 ctcgaggccc accgcaactg gagcaagccc gagctgtggt acgc 404

<210> 20
 <211> 366
 <212> DNA
 <213> Unknown

<220>
 <223> Hepatitis Y virus

<220>
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 <222> (357)..(357)
 <223> n represents any nucleotide

<220>
 <221> misc_feature
 <222> (363)..(363)
 <223> n represents any nucleotide

<220>
 <221> misc_feature
 <222> (364)..(366)
 <223> n represents any nucleotide

<400> 20
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 ggcgcgttgg ccgactggac gcccaggcgc tgcaaagcca aggcgtgcag acgctgctcg 180
 agggccaccg caactggagc aagcccagagc tgtggtacgc catcgagcgc gccggcaagg 240
 ttacaccta cgattactac ctgaccggac tgcattctga gatctatact gactaatccc 300
 ttgaccatcg cgaccagaag catatcacct ccccgccaat tcgcaatata cctatantta 360
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<210> 21
 <211> 582
 <212> DNA
 <213> Unknown

<220>
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 <222> (546)..(547)
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<400> 21
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 caccttgta tccctgacca ccagcgaagc cggccaagcc gccagcgccc gtcgcaagaa 180
 gtgcgtcgcc gcctttctgt tcgtggtgcc actgctgctg ttcattctcg tcaccttcgt 240
 cgccccgatc ggtaccatgc tgtggcgagc cgtgcatcac ccgaccgtgg ccgagctgat 300
 tccctgacc ctggccgagc tcgaacgctg ggatgatcac aagcaactgc cggacgaaaa 360
 aaccctgcag gtcttcgcca gcgaactgca tggccttaac cagcagcgcc tgtccggcaa 420
 gctctccgaa gaactcaacc ggcctatac cggcatgtcc agcgtggtca aagccactgc 480
 ccggcgctt ggccgactgg acgcccaggc gctgcaaagc caaggcgtgc agacgctgct 540
 cgaggnnac cgcaactgga gcaagccgga gctgtggtac gc 582

<210> 22
 <211> 513

<212> DNA

<213> Unknown

<220>

<223> Hepatitis Y virus

<400> 22

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ctgcctttct cttcgtggta ccgctgctgc tgttcacatc cgtcaccttc gtcgccccga      180
tcggtaccat gctgtggcgc agcgtgcac acccgaccgt ggccgaactg attcctctga      240
ccctggccga actcgagcgc tgggacgac acaagcaact gcccgacgaa cgtacgctga      300
gcgtattcgt cgacgaactg cagccctcg acaaacagcg cctgtccggc aagctgtccg      360
aggagttcaa ccgcgcctat accggcatgt ccagcgtggg caaagccact gcccggcgcg      420
ttggccgact ggacgcccag gcgctgcaaa gccaaggcgt gcagacgctg ctcgaggccc      480
accgcaactg gagcaagccc gagctgtggg acg                                     513
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<210> 23

<211> 415

<212> DNA

<213> Unknown

<220>

<223> Hepatitis Y virus

<400> 23

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tgtccgagga gttcaaccgc gcctataccg gcatgtccag cgtgggtcaaa gccactgccc      120
ggcgcgttgg ccgactggac gcccaggcgc tgcaaagcca aggcgtgcag acgctgctcg      180
aggccccacc caactggagc aagcccagac tgtggtacgc catcgagcgc gccggcaagg      240
tttacacctt cgattactac ctgaccgcac tggatctgga gatgcacccc gacgagggca      300
tccaggtgcg ccaggacacg cagatctatc tgcagctgta ttccaagacc ctgaacatgg      360
cgctggtcat caccctgctc tgcgcctcgc tcggctaccc ggtggcctac tacct          415
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<211> 530

<212> DNA

<213> Unknown

<220>

<223> Hepatitis Y virus

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<223> n represents any nucleotide

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<222> (448)..(448)

<223> n represents any nucleotide

<220>

<221> misc_feature

<222> (452)..(452)

<223> n represents any nucleotide

<400> 24

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ggcgcgttgg ccgactggac gccaggcgcg tgcaaagcca aggcgtgcag acgctgctcg      180
aggcccaccg caactggagc aagcccgagc tgtggtacgc catcgagcgc gccggcaagg      240
tttacaccta cgattactac ctgaccgcac tggatctgga gatgcacccc gacgagggca      300
tccagacctg cccggggcggc cgctcgaccc ctatagttag taatcccgcg gccatggcgg      360
ccgggagcat gcgacgtcgg gcccaatacg ccctatagtg agtcgtatta aaattcactg      420
gccgtcgttt tacaangtng tgaatggnaa ancctggcgt tacccaactt aatcgcttgc      480
cagcacatcc ccctttcgcc agctggcgta atagcgaaga ggcccgacc      530
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<210> 25

<211> 319

<212> DNA

<213> Unknown

<220>

<223> Hepatitis Y virus

<400> 25

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tgtccgagga gttgaaccgc gcgtataccg gcatgtccag cgtgggtcaaa gccagtgcc      120
ggcgcgttgg ccgagtggac gccaggcgcg tgcaaagcca aggcgtgcag agcgtgctc      180
gaggcccacc gcaactggag caagcccgag ctgtggtacg ccatcgagcg cgccggcaag      240
gtttacacct aggattacta cctgaccgca ctggatctgg agatgcaccc cgacgagggc      300
atccagacct gcccgggcg      319
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<210> 26

<211> 368

<212> DNA

<213> Unknown

<220>

<223> Hepatitis Y virus

<400> 26

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ctcgacaaac agcgctgtc cggcaagctg tccgaggagt tcaaccgcgc ctataccggc	120
atgtccagcg tggccaaagc cactgcccgg cgcgttggcc gactggacgc ccaggcgctg	180
caaagccaag gcgtgcagac gctgctcgag gccacgcga actggagcaa gcccgagctg	240
tggtacgcca tcgagcgcgc cggcaagggt tacacctacg attactacct gaccgcactg	300
gatctggaga tgcaccccga cgagggcatc caggcgcgcc aggacacgca gatctacctg	360
cccgggcg	368